

Edmund C. Berkeley and Associates  
Consulting Service  
36 West 11 St.  
New York 11, N.Y.

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*Send to DeTurk*  
*File*  
*other computers*

August 15, 1951

## ORGANIZATIONS IN THE FIELD OF AUTOMATIC COMPUTING MACHINERY

The following organizations, according to information reaching us, are engaged in one way or another in the field of making or developing automatic computing machinery. Next each organization we have put a few comments for purposes of orientation. Although we have tried to make this report complete and accurate, we assume no liability for any statements express or implied. We shall be glad to receive any changes or corrections that any reader sends us.

The key to the abbreviations follows:

Ls Large size, over 500 employees  
Ms Medium size  
Ss Small size, under 50 employees  
  
Ne Newly established organization  
Le Long established organization  
  
Dc Digital computing machinery  
Ac Analogue computing machinery  
Sc Servomechanisms  
Ic Incidental interests in automatic  
computing machinery

Ma Manufacturing activity  
Sa Selling activity  
Ra Research and development  
Ca Consulting  
Ga Government activity  
Pa Problem solving activity  
Ba Buying activity

(Used also in combinations, as  
in RMSa, research, manufacturing  
and selling activity.)

## ROSTER

Addressograph-Multigraph, 1200 Babbitt Road, Cleveland 17, Ohio  
Addressograph plates sorted by holes. Automatic translation into and  
out of punch cards. Facsimile printing of magazine address labels.  
Ls Le Ic RMSa

Alden Products Co., 117 No. Main St., Brockton, Mass.  
Computing machine parts. Magnetic delay line memory. Ms Ic RMSa

American Totalisator Co., 745 Fifth Ave., New York, N.Y.  
Automatic totaling machines for use at race-tracks. Ic MSa

Arma Corp., 254 36th Street, Brooklyn, N.Y.  
Electronic fire-control apparatus. Ls Ac RMSa

Armour Research Foundation, 135 S. LaSalle St., Chicago, Ill.  
Magnetic tape for sound recording. RCA



Askania Regulator Co., 240 E. Ontario St., Chicago, Ill.  
Sc RMSa

Autocall Co., Shelby, Ohio  
Relays for Harvard Mark II calculator. Ic MSa

Automatic Electric Co., 1033 W. Van Buren St., Chicago, Ill.  
Telephone equipment for independent telephone companies. Ls Le Ic RMSa

Baird Associates, 33 University Road, Cambridge, Mass.  
Spectroscopic analysis equipment. Scientific instruments. Ms Ic RMSa

Barber-Colman Co., Rockford, Ill.  
Textile machinery, air control equipment, gears, etc. Barber-Colman --- Stibitz  
low-cost digital computer, under testing. Ls Le Do RMSa

Beckman Instruments Inc., South Pasadena, Calif.  
"Analog-digital" convertor. DAC RMSa

Bell Telephone Laboratories, Murray Hill, N.J., and 463 West St., New York, N.Y.  
Automatic switching. Bell general purpose relay computers, for government  
and their own use. Ls Le Do Ra

Edmund C. Berkeley and Associates, 36 West 11 St., New York 11, N.Y.  
Small one-of-a-kind computers (Simon) and robots (Squee). Courses,  
consulting, writing. Ss Ne Do RCMSa

Benson-Lehner Corp., 2340 Sawtelle Blvd., West Los Angeles 64, Calif.

Karl J. Braun Engineering Co., State St., Stamford, Conn.  
Mechanical punches for garment tag reader, etc. Ss Ne Ic RMa

British Tabulating Machine Co., Ltd., 17 Park Lane, London W.1, England  
Punch card machines. Ls Le Do RMSa

Brujac Electronic Corp., 103 Lafayette St., New York 13, N.Y.  
Sales organization for Computer Corporation of America. ✓

Bureau of Census, Washington 25, D.C.  
Special punch card and other machines for own use. First customer owning  
a Univac. Ls Le Ic Ga

✓ Burroughs Adding Machine Co., 6072 Second Ave., Detroit, Mich., and 511 No. Broad St.,  
Philadelphia, Pa.  
Adding machines, bookkeeping machines, etc. Research division in Philadelphia  
has made "Tetrac", electronic digital test computer. Ls Le Do RMSa

Clary Multiplier Corp., 408 Junipero St., San Gabriel, Calif.  
Adding and multiplying machines. RMSa



Computation Centre, Univ. of Toronto, Toronto, Canada  
Ne RPa

Computer Corp. of America, 149 Church St., New York 7, N.Y.  
Electronic analogue computer. Ne Ac RMa

Computer Research Corp., Torrance, Calif.  
Digital differential analyzer. Ss Ne DAC RMSa

Computing Devices of Canada, Ltd., 475 Cambridge St., Ottawa, Canada

Control Instrument Co., 67 35th Street, Brooklyn, N.Y.  
Fire-control equipment. 1000 line a minute tabulator sold to Prudential Insurance Co. of America. Now a subsidiary of Burroughs. Ls Le DAC RMSa

The de Florez Co., 116 East 30 St., New York, N.Y.  
Magazine subscription fulfillment problem, etc. Ss Ne DAC RCa

Eastman Kodak Co., 333 State Street, Rochester, N.Y.  
Use of film with small dots for computer input-output. Facsimile machines.  
Ls Le Ic RMSa

✓ Eckert-Mauchly Computer Corp., 3747 Ridge Ave., Philadelphia, Pa.  
All-purpose electronic digital computers. Binao, sold to Northrop Aircraft.  
Univac, first one sold to Bureau of Census. Now a subsidiary of Remington Rand. Ms Ne Do RMa

Electronic Computer Corp., 265 Butler St., Brooklyn, N.Y.  
Constructing two electronic digital computers. Ss Ne Do RMSa ✓

Engineering Research Associates, Arlington, Va., and Minneapolis, Minn.  
Communication equipment for U.S. Govt. Magnetic drum memories. ERA "1101" electronic digital computer, now operating. Ms Ne Do RMSa

Engineers Northwest, 100 Metropolitan Life Bldg., Minneapolis 1, Minn.

Federal Telephone and Radio Corp., Clifton, N.J.  
Equipment for airline reservation problem. Ic RMSa ✓

Ferranti Electric Co., Moston, England, and Mount Dennis, Toronto, Canada, and  
30 Rockefeller Plaza, New York 20, N.Y.  
Constructing electronic digital computer based on English designs. RMSa

Franklin Institute, Laboratories for Research and Development, 20th St., & Benjamin Franklin Parkway, Philadelphia, Pa.  
Fire control equipment. Special purpose computers. SMs DAC RCMa

Friden Calculating Machine Co., San Leandro, Calif.  
Desk calculating machines. Ls Le Do RMSa



- ✓ General Electric Co., Syracuse, N.Y., and Schenectady, N.Y.  
Digital and analogue, electric and electronic, computers and analyzers.  
Ls Le Io RMSa
- ✓ Harvard Computation Laboratory, Cambridge 38, Mass.  
Harvard Mark I, II, III, IV calculators for Navy, Air Force, and own use.  
Ms Dc RPma
- Hogan Laboratories, 155 Perry Street, New York, N.Y. ✓  
Facsimile. Ms Io RMSa
- Hughes Aircraft Co., Culver City, Calif.  
Aircraft, guided missiles, fire-control equipment. Ls DAc RMSa
- Institut Blaise Pascal, 155 Rue de Sevres, Paris 15, France  
Constructing a digital calculator. Dc RPa
- ✓ Institute for Advanced Study, Princeton, N.J.  
"Maniac", big fast electronic digital calculator, for own use. Dc RPma
- Intelligent Machines Research Corp., 505 Randolph St., Falls Church, Va.  
Machine for reading characters on paper and operating typewriter accordingly.  
Ss Ne Dc RMSa
- ✓ International Business Machines Corp., 590 Madison Ave., New York, N.Y.  
Punch card machines. IBM Selective Sequence Electronic Calculator. Card  
programmed calculators, electronic calculating punch, "defense" calculator.  
Ls Le Dc RMSa
- International Telephone and Telegraph Corp., 67 Broad St., New York, N.Y.  
Equipment for airline reservation problem. Io
- A. Kimball Co., 307 West Broadway, New York, N.Y. ✓  
Machine for printing and punching garment tags. Ms Io MSa
- Laboratory for Electronics, Inc., 11 Leon Street, Boston 15, Mass.  
Ac Ne
- Lithomat Corp., 58 Charles St., Cambridge, Mass.  
Machinery for composing type by photography. Ne Io RCMSa
- Arthur D. Little, Inc., 30 Memorial Drive, Cambridge 42, Mass.  
Ms RCA
- W.S. MacDonald Co., Inc., 33 University Road, Cambridge, Mass.  
"Cash register" using magnetic drum memory for some 1000 registers.  
Ss Ne Io RMSa
- Marchant Calculating Machine Co., Oakland, Calif.  
Desk calculating machinery. Ls Le Io MSa



Massachusetts Institute of Technology, Servomechanisms Laboratory, also Center of Analysis, Cambridge 39, Mass.

"Whirlwind" electronic digital computer. DAc RCPa

Mellon Institute, Pittsburgh, Pa.

Io RCPa

Monroe Calculating Machine Co., Orange, N.J.

Desk calculating machinery. Ls Le De RMSa

Moore School of Electrical Engineering, Univ. of Pennsylvania, Philadelphia, Pa.

Place where Eniac and Edvac electronic digital computers were constructed.  
DAc RCPMa

National Bureau of Standards, Washington 25, D.C., and Los Angeles 24, Calif.

Eastern Automatic Computer. Western Automatic Computer. National Applied Mathematics Laboratory, Washington. Institute of Numerical Analysis, Los Angeles. Ms Le DAc RCPa

National Cash Register Co., 323 No. Michigan Ave., Dayton, Ohio

Cash registers. Ls Le Io RMSa

Naval Research Laboratory, Anacostia, Md.

Io RCPa

Northrop Aircraft Co., Hawthorne, Calif.

Owner of Binas. Makers of Maddida, digital differential analyzer. Ls DAc RMSa

Pennsylvania State College, State College, Pa.

Pepinsky electronic analyzer of crystal structure. Ac RPa

George A. Philbrick Researches, 230 Congress St., Boston, Mass.

Electronic analogue computing equipment. Ss Ne Ac RCMSa

Pitney-Bowes, Inc., Stamford, Conn.

Metered mail equipment. Io MSa

Potter Instrument Co., Great Neck, N.Y.

Electronic counters. Electronic tag reader. Ms Ne Io RMSa

Radio Corp. of America, Laboratories, Princeton, N.J., and R.C.A. Victor Div., Camden, N.J.

Ls Le Io RMSa

The Rand Corp., 1500 4th St., Santa Monica, Calif.

Io RCPa

Raytheon Manufacturing Co., Waltham, Mass.

Radar. Fire-control equipment. Two big fast electronic digital computers, being finished. Ls DAc RMSa

Reeves Instrument Co., 215 East 91 St., New York, N.Y.

Fire-control equipment. "REAC" electronic analogue computers. Ms Ac RMSa



Research Laboratories of Elliott Bros., Borehamwood, Herts., England  
Dac RMSa

Saunders Automatic Systems Corp., Memphis, Tenn.  
"Keedoozle" automatic store devices. Ic RMSa

Scientific Computing Service, Ltd., 23 Bedford Sq., London W.C.1, England  
Dac CPa

Sperry Gyroscope Co., Lake Success, N.Y.  
Fire-control equipment. Ac RMSa

\* Sylvania Electric Co., 70 Forsyth St., Boston, Mass.  
Big fast electronic analogue and digital computers, for government. Ls Le  
Dac RMSa

Taller and Cooper, 75 Front St., Brooklyn, N.Y.  
Toll equipment for bridges. Ic RMSa

Technitrol Engineering Co., 3213 Market St., Philadelphia, Pa.  
Computing and control equipment. Ss Ne Dac RMSa

Telecomputing Corp., Burbank, Calif.

Teleregister Corp., 157 Chambers St., New York, N.Y.  
Associated with Western Union. Ic RMSa

Underwood Corp., General Research Lab., 56 Arbor St., Hartford 6, Conn.  
Underwood electric typewriters, used in Harvard Mark II calculator. Ls Le  
Ic RMSa

U.S. Air Force, Office of Air Research, also Inst. of Technology, Wright-Patterson  
Air Force Base, Dayton, Ohio  
Electronic strategy machine, made by L.I. Davis. Assembling a computing  
laboratory. Ls Ic Ga

U.S. Army, Ballistic Research Laboratories, Aberdeen Proving Ground, Aberdeen, Md.  
Has Eniac, Edvac, Bell computer, and other computers. Ms Le Dac Ga

U.S. Naval Proving Ground, Dahlgren, Va.  
Has Harvard Mark II and Mark III computers. Ms Le Dac Ga

Univ. Mathematical Laboratory, Free School Lane, Cambridge, England  
Has EDSAC electronic digital calculator. De RCPa

\* Swedish State Board of Computing Machinery, Stockholm, Sweden  
Contractor for "BARK", relay digital computer. Dac RBa

✓ Univ. of California, Berkeley, Calif.  
Constructing CALDIC, California Digital Computer. De RPa

Univ. of California, Inst. for Numerical Analysis, 405 Hilgard Ave., Los Angeles 24, Calif.  
Operated jointly with the Bureau of Standards. Location of Bureau of Standards  
Western Automatic Computer. De RCPa



✓ Univ. of Illinois, Urbana, Ill.

Constructing an electronic digital computer like Princeton's Maniac. De RPa

Univ. of Manchester, Manchester, England

Electronic digital computers. De RPa

✓ Watson Scientific Computing Laboratory, 612 West 116 St., New York, N.Y.

The pure science department of International Business Machines. Ss Le DAc  
RCPa

Wayne University, 5135 Cass Ave., Detroit 1, Mich.

Computation laboratory. Now has the first MIT differential analyzer. DAc RCPa

Western Union Telegraph Co., 60 Hudson St., New York, N.Y.

Punched tape input and output equipment for Harvard Mark II calculator. Ls  
Le Ic RMSa

Westinghouse Electric and Manufacturing Co., Central Engineering Div., East Pittsburgh, Pa.

Big analogue computers, mainly for own use. Ls Le Ac RMSa

Zator Co., 40 Grozier Road, Cambridge, Mass.

Information-finding equipment and systems. Ss Ne Ic RMSa

